

September - 03

TNPSC BITS

- ❖ Ma-on, a tropical storm, hit the northern Philippines.
 - Hurricane is a tropical cyclone occurring in Atlantic Ocean and north-eastern Pacific Ocean while Typhoon occurs in north-western Pacific Ocean.

NATIONAL

World's Largest Carbon Fiber Plant



- ❖ Reliance Industries plans to build India's 1st and World's Largest Carbon Fibre Plant at Hazira, Gujarat
- ❖ It was announced by its chairman Mukesh Ambani at the 45th Annual General Meeting.
- ❖ The plant will be developed as part of the company's Oil to Chemical segment (O2C).
- ❖ Carbon Fibre is a new-age material which has found multiple uses in industry and automotive sector.
- ❖ It is a lightweight but strong material with high conductivity.
- ❖ So, it has been growing in demand as a substitute for steel in the automobile, construction and military sectors.

India's 1st Indigenous Vaccine against Cervical Cancer - Ceravac

- ❖ Serum Institute of India (SII) and the Department of Biotechnology (DBT) launched India's 1st Indigenously developed Vaccine against Cervical Cancer.

- ❖ The vaccine was launched by Union Minister of State (Independent Charge) Science & Technology Jitendra Singh.
- ❖ The vaccine is formally named Quadrivalent Human Papillomavirus vaccine (qHPV).
- ❖ It has been developed indigenously by SII and was granted clearance by the Drugs Controller General of India in July.
- ❖ As per the data of World Health Organization (WHO), India accounts for more than a fifth of Cervical Cancer patients in the world.



5th Rashtriya Poshan Maah (National Nutrition Month)


Towards a New Vision
Ministry of Women and Child Development
Government of India

#AatmaNirbharBharatKaBudget

MISSION POSHAN 2.0

& SAKSHAM ANGANWADI



- 1 | 2 lakh Anganwadis to be upgraded as 'Saksham Anganwadis' 
- 2 | Nutritional norms and standards to be improved 
- 3 | Quality and testing of Take-home Ration to be strengthened 
- 4 | Traditional community food habits to be promoted 
- 5 | Delivery of food under the Supplementary Nutrition Program to be optimised 

- ❖ The Ministry of Women and Child Development will celebrate the 5th Rashtriya Poshan Maah 2022 from 1st to 30th Sept 2022 as part of the POSHAN Abhiyaan.
- ❖ The Central Theme of Poshan Maah 2022 is “Mahila aur Swasthya” and “Bacha aur Shiksha”.
- ❖ POSHAN Abhiyaan aims to improve nutritional outcomes for children under 6 years of age, pregnant women and lactating mothers.
- ❖ It was launched by Prime Minister on the occasion of International Women’s Day on March 8, 2018.
- ❖ POSHAN stands for “Prime Minister’s Overarching Scheme for Holistic Nutrition Abhiyaan”.
- ❖ The government has also launched Mission Poshan 2.0 as a support initiative to strengthen nutritional content, delivery, outreach and outcomes that nurture health, wellness and immunity to disease and malnutrition.

Arth Ganga



- ❖ Recently, the Ministry of Jal Shakti unveiled a new initiative named ‘Arth Ganga’ under the Namami Gange program.
- ❖ It aims to boost economic activities along the banks of river Ganga.
- ❖ Zero Budget Natural Farming is its first level.
- ❖ It includes chemical free farming for 10 km on both banks of the river and promotion of cow dung as manure through Govardhan Yojana.

- ❖ This will open the way for 'Per Drop, More Income' and 'Gobar Dhan' for the farmers.
- ❖ Namami Gange is operated under Ministry of Jal Shakti.
- ❖ It is implemented by the National Mission for Clean Ganga.

ICMR study on snakebites



- ❖ The Indian Council of Medical Research (ICMR) is conducting a first of its kind study on snakebite incidence in 14 states representing all geographical regions of the country.
- ❖ Himachal Pradesh, Andhra Pradesh, Arunachal Pradesh, Rajasthan, Maharashtra, Kerala, Tamil Nadu, Odisha, West Bengal, Uttarakhand, Meghalaya, Mizoram and Tripura have been included in this study.
- ❖ Geographically the greatest impact of snake bites occurs in tropical and sub-tropical regions, which are highest in India.
- ❖ ICMR is one of the oldest and largest medical research bodies across the world.
- ❖ It is the apex body to formulate, coordinate and promote biomedical research.

INTERNATIONAL

Kushiyara River

- ❖ India and Bangladesh finalized a draft of a Memorandum of Understanding to share the waters of the Kushiyara River.
- ❖ It was signed during the 38th Ministerial Meeting of the India-Bangladesh Joint Rivers Commission.
- ❖ The Kushiyara River forms the Indo-Bangladesh border as a branch of the Barak River.
- ❖ When it separates from the Surma, it forms the branch of the Barak River.

- ❖ After flowing some distance in Bangladesh, it meets again with Surma river
- ❖ This combined river is now called Meghna River.
- ❖ Manipur, Mizoram and Assam receive water through this river in India.
- ❖ India and Bangladesh share 54 rivers between them.
- ❖ All the rivers of Bangladesh either have their source in India or pass through it.

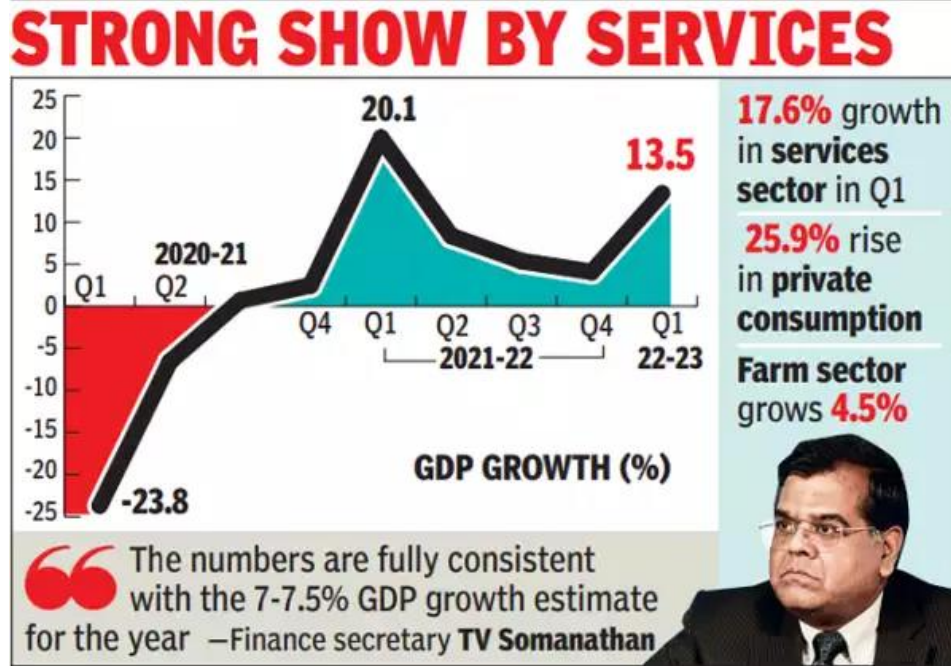


ECONOMY

India's Q1 GDP – 2022/2023

- ❖ The National Statistical Office (NSO), Ministry of Statistics and Program Implementation released the estimates of Gross Domestic Product (GDP).
- ❖ India's Q1 GDP is marking an upward trajectory and growing at 13.5%
- ❖ Indian Economy continued its recovery from the post-pandemic impact.
- ❖ However, the GDP growth figure is significantly lower in comparison to the Reserve Bank of India's projection of 16.2% GDP growth in Q1 FY23.
- ❖ The Gross Domestic Product figure for the April-May-June Quarter was a significant improvement over the previous quarter i.e., Jan-Feb-March 2022.
- ❖ In which India's GDP grew only by 4.1%.
- ❖ In the same quarter last year - April-May-June 2021 the country had witnessed GDP growth of 20.1 percent.
- ❖ However, the figure was magnified due to the economic contraction in the pandemic year.
- ❖ In this Quarter, Private consumption witnessed a growth of nearly 26 percent.

- ❖ NSO as an agency that was formed on the recommendation of the Rangarajan Commission.
- ❖ NSO was formed after merging the National Sample Survey Office (NSSO) and Central Statistics Office (CSO) under the Ministry of Statistics and Programme Implementation (MoSPI).



SCIENCE AND TECHNOLOGY

Tejas 2.0

THE CONTINUING SAGA OF

Tejas Light Combat Aircraft

Aug 1983: LCA project is approved with initial cost of ₹560 crore to replace aging MiG-21s

Jan 2001: First prototype of lightweight multi-role fighter flies

Dec 2013: Tejas gets initial operational clearance (IOC)

Mar 2015: First fighter, in IOC configuration, to be handed over to IAF

Dec 2015: Tejas likely to get final operational clearance (FOC)

2017-2018: All 20 jets of first IOC squadron slated to be delivered

Post-2018: Second squadron, with 20 Tejas in FOC configuration

2012-2022: IAF likely to begin getting 80 Tejas Mark-II to form 4 squadrons

INDIGENOUS CONTENT: 65%
(American engines & ejection seats, Canadian canopy sheaths, etc)

TEJAS CHARACTERISTICS	
Weight (fully-loaded)	12tonne
Length	13.2metre
Height	4.4metre
Wing Span	8.2metre
Service Ceiling	15km
Speed	1,350 kmph
Radius of Action	Over 400km (without refuelling)

TOTAL COSTS:
At least ₹55,000cr. Developmental cost (including air force & naval variants, trainers & failed Kaveri engine) stands at ₹17,269cr now. With each jet to cost ₹220cr-250cr, 120 Tejas will cost ₹37,440cr

- ❖ The PM led Cabinet Committee on Security (CCS) approved Tejas Mark-2 Project.
- ❖ Tejas 2.0 will be a more capable version of the indigenous Tejas light combat aircraft (LCA).
- ❖ The new jet will also be equipped with an indigenously developed Active Electronically Scanned Array (AESA) radar.
- ❖ Tejas Mark-2 is expected to replace fighters like the Mirage-2000s, Jaguars and MiG-29s in the Indian Air Force's combat fleet.
- ❖ The existing Tejas Mark-1 fitted with GE-404 engines was designed to replace obsolete MiG-21s.
- ❖ Tejas Mark-1 was primarily developed to boost IAF's air defence capabilities.
- ❖ But the Mark-2 version will be capable of being used in offensive operations as well.

SPORTS

Neeraj Chopra



- ❖ Olympic gold medallist Neeraj Chopra of javelin throw, recently won the Lausanne Diamond League of Switzerland.
- ❖ He became the first Indian to win the Diamond League meeting title.
- ❖ Before Chopra, discus thrower Vikas Gowda is the only Indian to finish in the top three in the Diamond League.
- ❖ Neeraj has become the first track and field athlete to win an Olympic gold medal for India and second Olympic athletics to win for India after Norman Pritchard.
- ❖ Norman Pritchard won two silver medals at 1900 Summer Olympics for India.

